

=>

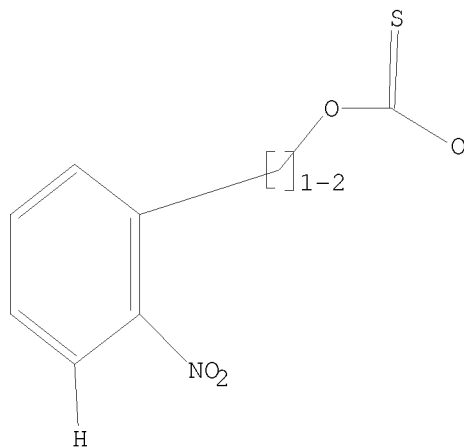
Uploading C:\Documents and Settings\jlaul\My Documents\10764989 - photolabile
PG\thiocarbonate.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 NO₂,X,H

G2 G1,CN,MeO,Ak

G3 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 15:29:42 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 4 TO 200

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 15:29:59 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 46 TO ITERATE

100.0% PROCESSED 46 ITERATIONS

3 ANSWERS

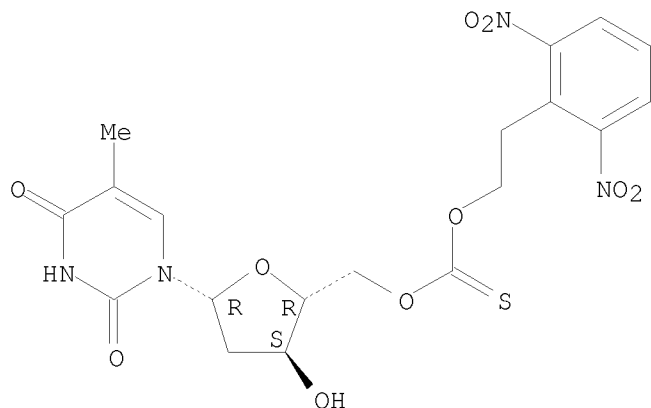
SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

=> d 13 scan

L3 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Thymidine, 5'-[O-[2-(2,6-dinitrophenyl)ethyl] carbonothioate] (9CI)
MF C19 H20 N4 O10 S

Absolute stereochemistry.

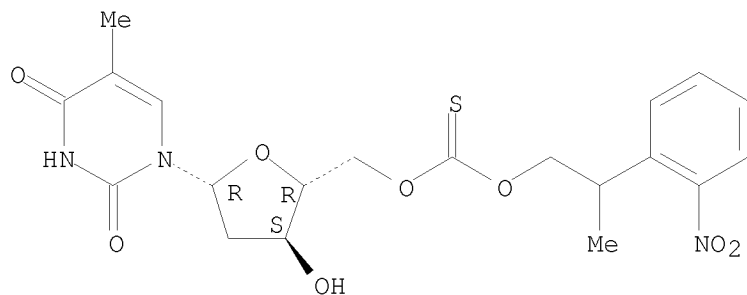


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Thymidine, 5'-[O-[2-(2-nitrophenyl)propyl] carbonothioate] (9CI)
MF C20 H23 N3 O8 S

Absolute stereochemistry.

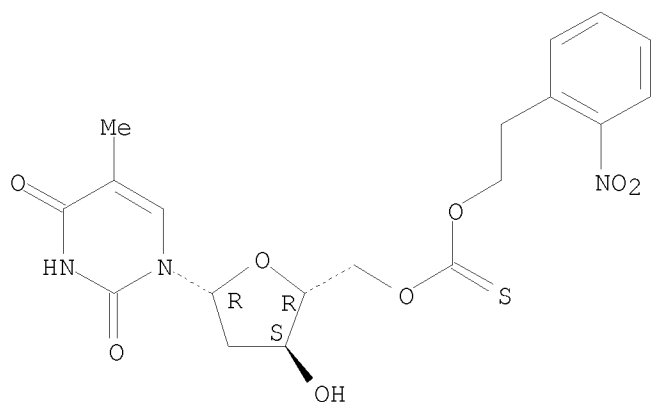


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Thymidine, 5'-[O-[2-(2-nitrophenyl)ethyl] carbonothioate] (9CI)
MF C19 H21 N3 O8 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

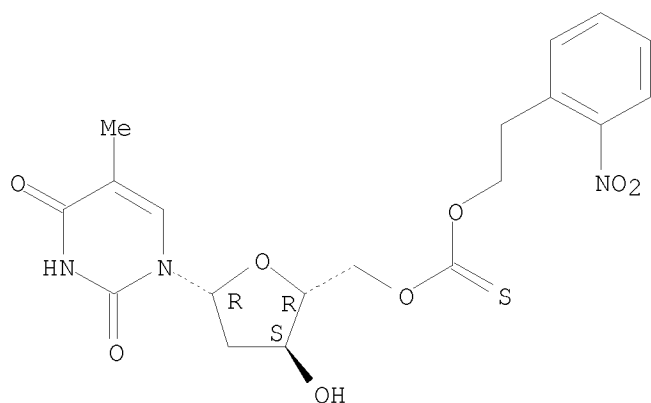
ALL ANSWERS HAVE BEEN SCANNED

=> d 13 1-

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
RN 325975-03-9 REGISTRY
ED Entered STN: 07 Mar 2001
CN Thymidine, 5'-[O-[2-(2-nitrophenyl)ethyl] carbonothioate] (9CI) (CA INDEX
NAME)
FS STEREOSEARCH
MF C19 H21 N3 O8 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

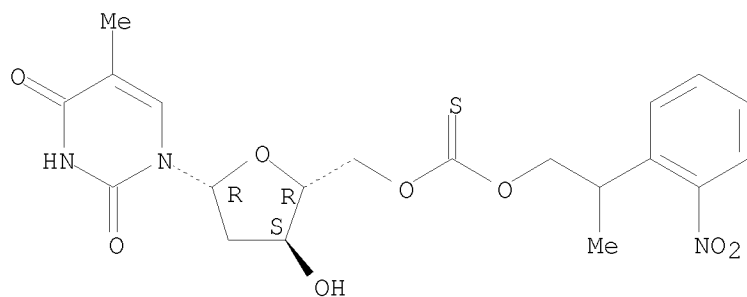


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
RN 325975-02-8 REGISTRY
ED Entered STN: 07 Mar 2001
CN Thymidine, 5'-[O-[2-(2-nitrophenyl)propyl] carbonothioate] (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H23 N3 O8 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



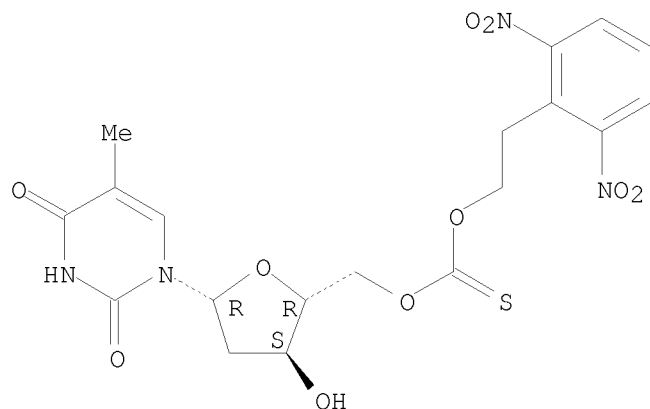
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
RN 325975-00-6 REGISTRY
ED Entered STN: 07 Mar 2001
CN Thymidine, 5'-[O-[2-(2,6-dinitrophenyl)ethyl] carbonothioate] (9CI) (CA INDEX NAME)

FS STEREOSEARCH
MF C19 H20 N4 O10 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.28

185.49

FILE 'CAPLUS' ENTERED AT 15:30:33 ON 29 APR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 29 Apr 2008 VOL 148 ISS 18

FILE LAST UPDATED: 28 Apr 2008 (20080428/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s 13
L4          1 L3

=> d 14 scan

L4      1 ANSWERS  CAPLUS  COPYRIGHT 2008 ACS on STN
IC      ICM  C07H019-06
ICS     C07H019-10; C07H019-16
CC      33-10 (Carbohydrates)
        Section cross-reference(s): 25
TI      Preparation of nucleoside derivatives capable of undergoing UV-photolysis
        for oligonucleotide synthesis
ST      photolabile thiocarbonate protective group nucleoside prepn
IT      Photochemistry
        Photolysis
        Protective groups
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT      Nucleosides, preparation
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT      Carbonates, preparation
        Group VIA element compounds
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (thiocarbonates; preparation of nucleoside derivs. capable of undergoing
          UV-photolysis for oligonucleotide synthesis)
IT      50-89-5, 2'-Deoxythymidine, reactions 463-71-8, Thiophosgene 606-20-2
        612-22-6 30525-89-4, Paraformaldehyde 325975-03-9
        RL: RCT (Reactant); RACT (Reactant or reagent)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT      64987-77-5P 77759-08-1P 325974-99-0P 325975-01-7P
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
          (Reactant or reagent)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
IT      325975-00-6P 325975-02-8P
        RL: SPN (Synthetic preparation); PREP (Preparation)
          (preparation of nucleoside derivs. capable of undergoing UV-photolysis for
          oligonucleotide synthesis)
```

ALL ANSWERS HAVE BEEN SCANNED

```
=> d his
```

(FILE 'HOME' ENTERED AT 15:28:31 ON 29 APR 2008)

FILE 'REGISTRY' ENTERED AT 15:28:46 ON 29 APR 2008

```
L1          STRUCTURE UPLOADED
```

```
L2          0 S L1 SSS SAM
```

```
L3          3 S L1 SSS FULL
```

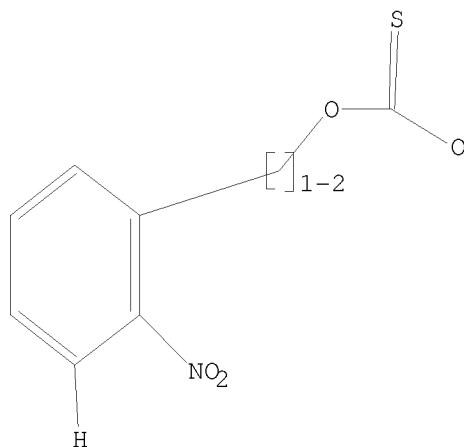
FILE 'CAPLUS' ENTERED AT 15:30:33 ON 29 APR 2008

L4 1 S L3

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 NO₂, X, H

G2 G1, CN, MeO, Ak

G3 O, S

Structure attributes must be viewed using STN Express query preparation.

=> s 14 and py<=2002

22929871 PY<=2002

L5 1 L4 AND PY<=2002

=> d 15

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:137226 CAPLUS <<LOGINID::20080429>>

DN 134:178767

TI Preparation of nucleoside derivatives capable of undergoing UV-photolysis
for oligonucleotide synthesis

IN Berlin, Kurt

PA Epigenomics A.-G., Germany

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2001012642	A2	20010222	WO 2000-DE2755	20000810 <--
	WO 2001012642	A3	20010607		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
	HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 DE 19938092 A1 20010222 DE 1999-19938092 19990812 <--
 EP 1325016 A2 20030709 EP 2000-962214 20000810
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 PRAI DE 1999-19938092 A 19990812
 WO 2000-DE2755 W 20000810
 OS MARPAT 134:178767

=> d his

(FILE 'HOME' ENTERED AT 15:28:31 ON 29 APR 2008)

FILE 'REGISTRY' ENTERED AT 15:28:46 ON 29 APR 2008

L1 STRUCTURE UPLOADED
 L2 0 S L1 SSS SAM
 L3 3 S L1 SSS FULL

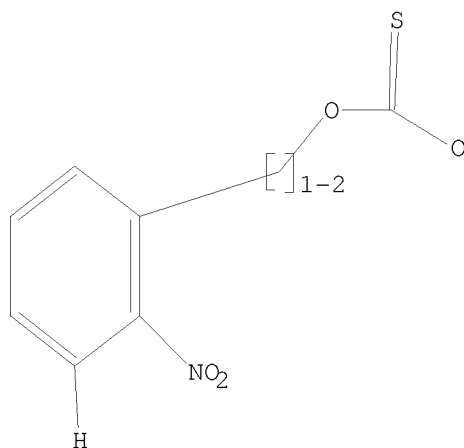
FILE 'CAPLUS' ENTERED AT 15:30:33 ON 29 APR 2008

L4 1 S L3
 L5 1 S L4 AND PY<=2002

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 NO2, X, H

G2 G1, CN, MeO, Ak

G3 O, S

Structure attributes must be viewed using STN Express query preparation.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.77

190.26

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 15:32:21 ON 29 APR 2008